



Basic Features	Working principle	Capacitive sensor					
	Housing	Cylindrical					
	Installation type	Flush			Non-flush		
	Sensing distance	3.0mm	8.0mm	20mm	6.0mm	15mm	30mm
	Thread size	M12	M18	M30	M12	M18	M30
	Sensing surface material	PBT					
	Detected objects	Metal, liquid, powder, wood, paper, plastic and other materials					
	Indicator	Operation Status: LED					
	Sensing range adjustment	Available					
Electrical data	Switching output	Normally Open or Normally Closed					
	Output mode	NPN or PNP Open Collector					
	External input	None					
	Switching frequency	0.1kHz					
	Repeatability	5%					
	Hysteresis	15%					
	Operating Voltage	10~30V DC $\pm 10\%$					
	Current consumption	$\leq 10\text{mA}$					
	Residual Voltage	$\leq 2\text{V}$					
	Load current	150mA	300mA	150mA	300mA		
	Leakage current	$< 0.01\text{mA}$					
	Insulation resistance	$\geq 50\text{M}\Omega$ with 500V DC between power terminals and enclosure					
	Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between power terminals and enclosure					
	Vibration resistance	10 to 55 Hz, 1.5 mm double amplitude, 2 hours for each X, Y, and Z directions					
	Circuit Protection	Short circuit protection					
Environmental conditions	Operating Temperature	$-25\sim 75^{\circ}\text{C}$					
	Operating Humidity	35~85%					
	Enclosure rating	IP67					
Mechanical data	Connection type	2m/3-core Cable					
	Dimension	M12x56.9mm	M18x72.5mm	M30x87.0mm	M12x61.4mm	M18x76.0mm	M30x85.0mm
	Material	PBT					
	Weight	0.05kg	0.08kg	0.12kg	0.05kg	0.08kg	0.12kg
	Accessories	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5	Nut M12x1.0	Nut M18x1.0	Nut M30x1.5
	Model						
Model	NPN NO	CKF12-03[NIO]	CKF18-08[NIO]	CKF30-20[NIO]	CKN12-06[NIO]	CKN18-15[NIO]	CKN30-30[NIO]
	Others	[NIO]:NPN Normally open [NIC]:NPN Normally closed [PIO]:PNP Normally open [PIC]:PNP Normally closed					

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Inductive sensors

Standard distance

Extended distance

Long distance

Square

Mini square

Mini-cylindrical

Short-body

Ring-type

Metal face

Temperature

resistance type

IP69K high protection

Anti-Slag

Analog output

DC 2 wires

Capacitive sensors

Cylindrical

Correction

resistance type

Flat type

Level detection

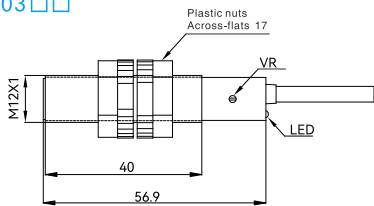
Cylindrical-CK Series

Dimensions

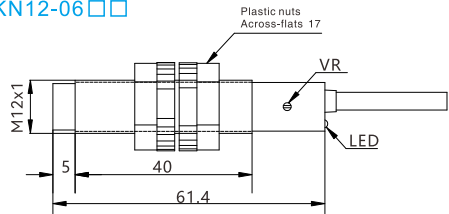
Unit:mm

M12

CKF12-03□□

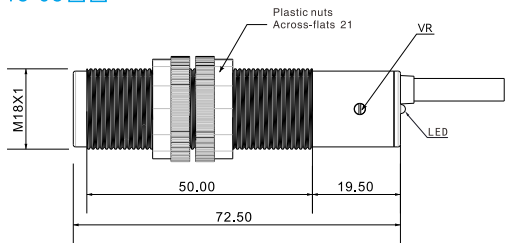


CKN12-06□□

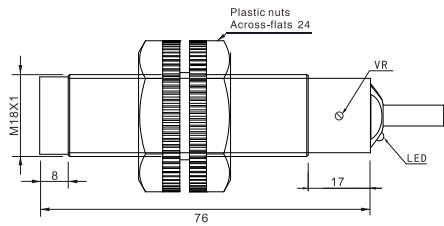


M18

CKF18-08□□

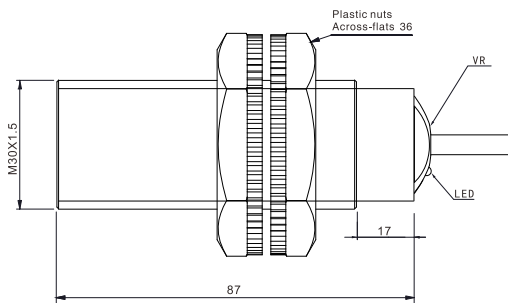


CKN18-15□□

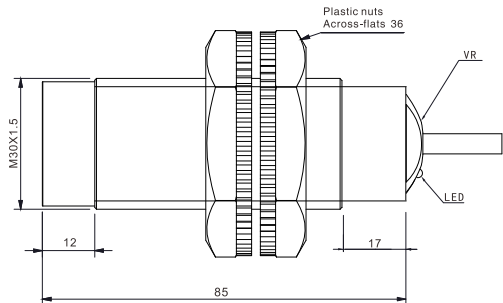


M30

CKF30-20□□



CKN30-30□□



Guidance

Inductive sensors

- Standard distance
- Extended distance
- Long distance
- Square
- Mini square
- Mini-cylindrical
- Short-body
- Ring-type
- Metal face
- Temperature resistance type
- IP69K high protection
- Anti-Slag
- Analog output
- DC 2 wires

Capacitive sensors

- Cylindrical
- Correction resistant type
- Flat type
- Level detection